

ABSTRACT OF THE INVENTION

The present invention relates to a system and method for extending the coverage area and communication capacity of a spread-spectrum based wireless network. The system comprises a unique dual-scale, asymmetrical cellular architecture for a wireless network, wherein the communication uplink is based on a
5 macro-cellular system, and the communication downlink is based on a micro-cellular system. Through the user of remote downlink transmitters in the micro-cellular system, the present invention provides a cost effective solution for increasing communication capacity and extending coverage area.

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